Tensioning Winder 30

User's Guide

For Océ CS9050, CS9060 & CS9160
Eco Solvent Printers

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This document is furnished for the installation of the Tensioning Winder 30 on a OCÉ CS9060 & CS9160 Eco Solvent Printer.
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WEEE regulations

Environmental information

Disposal of your old product

Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC

Please inform yourself about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

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Table of contents

1 Safety instructions 7

2 Product overview 9

2.1 Part names and functions 9
2.1.1 Front side 9
2.1.2 Rear side 10
2.1.2.1 CS9050() 10
2.1.2.2 CS9060 and CS9160 () 10

2.2 In-the-box contents CS9050 11
2.2.1 Winder kit CS9050 12

2.3 In-the-box contents CS9060 and CS9160 13
2.3.1 Winder kit CS9060 and CS9160 14

3 Installation procedure 15

3.1 Installing the front tensioning system 15

4 Calibration procedure 21

4.1 Tensioning bar 21
4.1.1 Calibration 21
4.1.2 Adjustment 23

4.2 Scroller bar 24
4.2.1 Calibration 24
4.2.2 Adjustment 26

5 Operating the system 27

5.1 Switching the power ON/OFF 27

5.2 Connecting the power cable 27

5.3 Activate the winding system 28

5.4 Locking the system 28

5.5 Loading roll media 29

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1 SAFETY INSTRUCTIONS

⚠ Important ⚠

BE SURE TO READ THE TERMS IN THE NEXT CHAPTER THOROUGHLY BEFORE INSTALLING AND OPERATING THE SYSTEM FOR YOUR OWN SAFETY.

All safety related terms are bundled and categorized in three types.

Safety terms	Details
⚠ **Important** ⚠	Must be followed carefully to avoid death or serious bodily injury
⚠ **Caution** ⚠	Must be observed to avoid bodily injury (moderate or light) or damage to your equipment
⚠ **Notes** ⚠	Contains important information and useful tips on the operation of your printer

- Do not stand on or place heavy objects on the unit. Doing so may result in the unit tipping or falling over and causing injury.
- Do not attempt to plug in electrical plugs with wet hands. Doing so may result in electrical shock.
- Do not use thinner, benzene, alcohol or other active agents. Doing so may result in damage or paint peeling from the casing.
- Be careful not to spill water inside the winder. Doing so may result in a short-circuit.
- Never open the covers fixed with screws. Doing so may result in electrical shock or a malfunctioning in the unit.
- When setting roll media, place it on top of a desk or other flat surface. Setting roll media with the scroller standing up may damage them.

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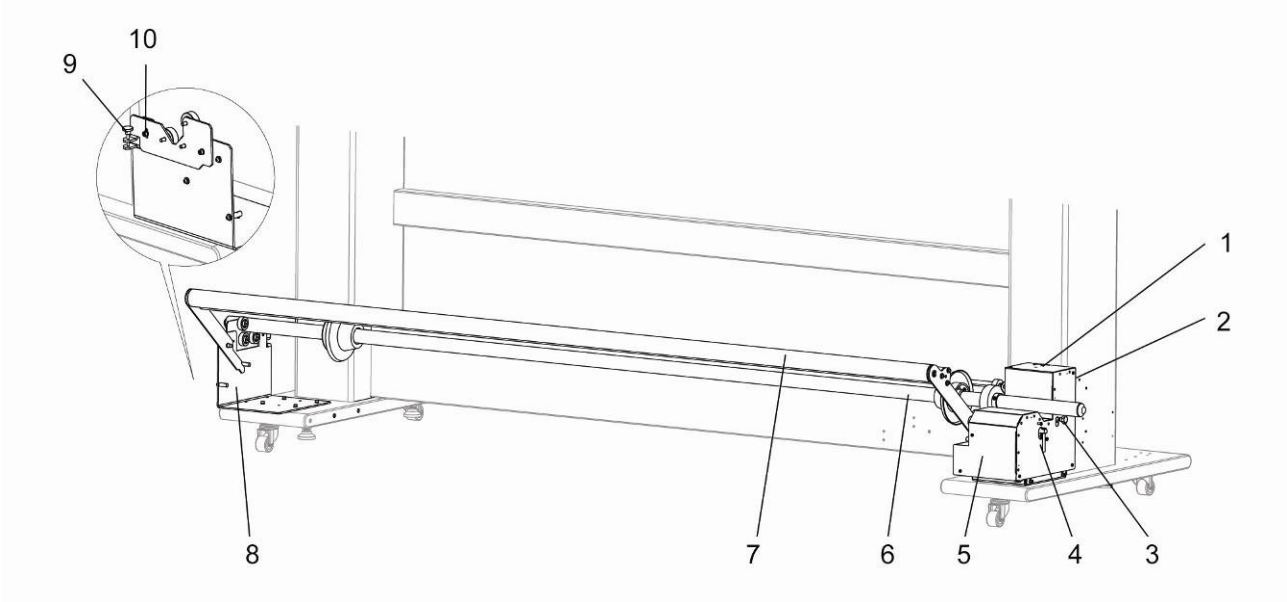
2 PRODUCT OVERVIEW

2.1 PART NAMES AND FUNCTIONS

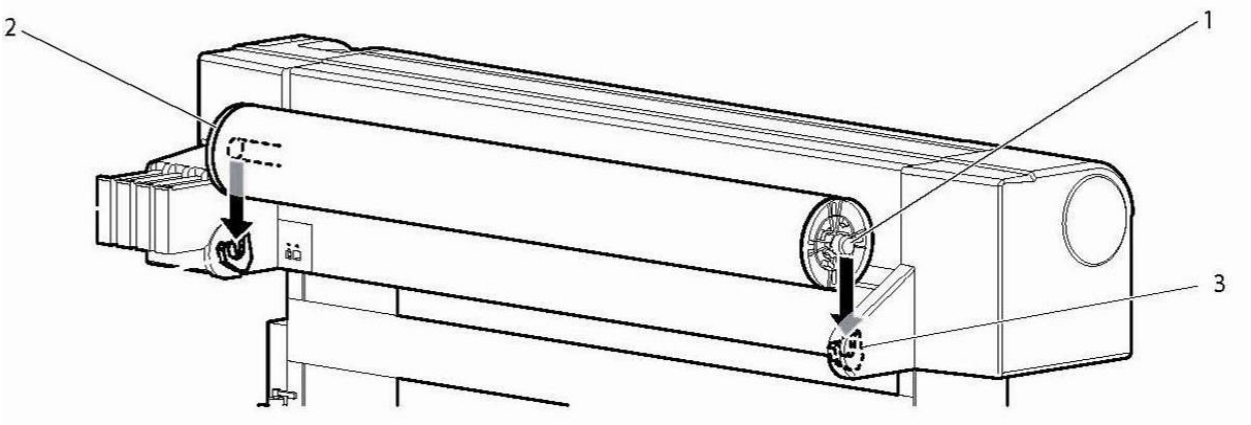
2.1.1 Front side



No	Name	Function
1	Operation panel	Enable or disable the winding system
2	Power switch	To switch ON and OFF the T Winder 30
3	Horizontal adjustment screw	Adjust the side position of the scroller
4	Scroller lock lever	To lock and unlock the scroller
5	Driving mechanism	Winds up the printed media
6	Scroller assembly	To install an empty core on which printed media is wound up
7	Tensioning bar	Optimizes the tension between print platform and scroller
8	Left bracket	Scroller support
9	Scroller height adjustment screw	Lower or raise the scroller
10	Scroller height fixing screw	Fix the height of the scroller

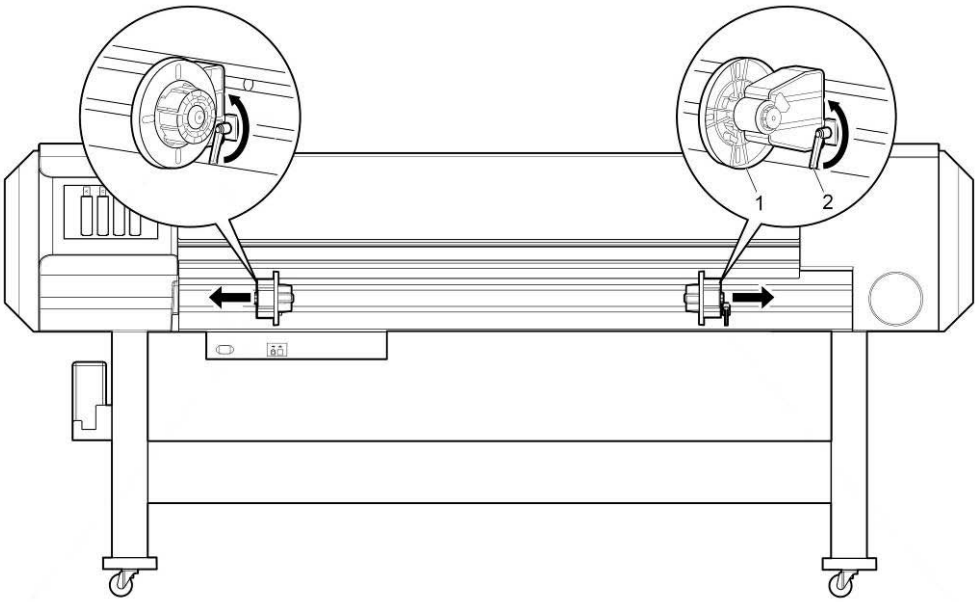
2.1.2 Rear side

2.1.2.1 CS9050(*)



No	Name	Function
1	Scroller	Supports the movable flanges
2	Flange	There is one movable and one fixed flange to position the media correctly
3	Scroller receiver	Movable flange

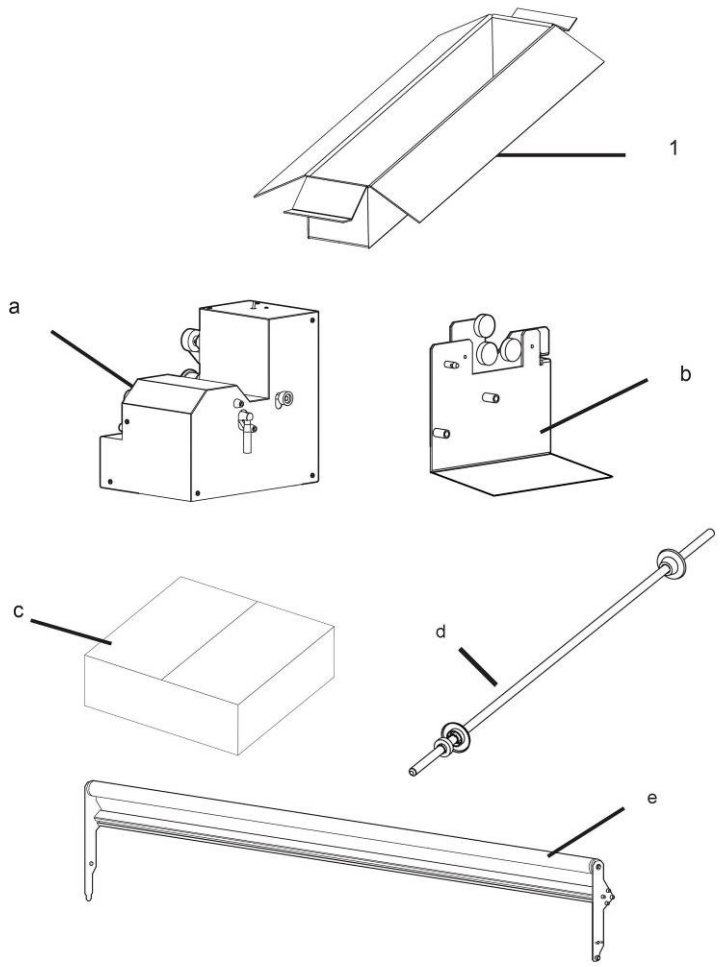
2.1.2.2 CS9060 and CS9160 (*)



No	Name	Function
1	Scroller support	Movable 2-3" compatible core holders.
2	Scroller support lever	To lock or unlock the scroller supports.

(*) This system is pre mounted and not included in the kit. But works as one system with the tensioning winder.

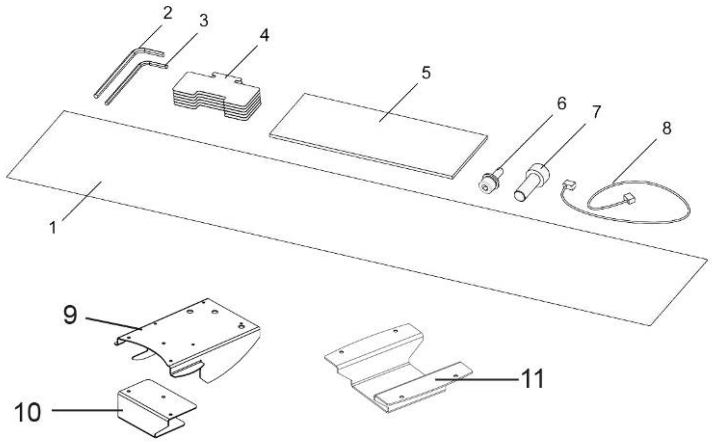
2.2 IN-THE-BOX CONTENTS CS9050



No	Part Description	Quantity
1	**Front tensioning system**	**1**
a	Driving mechanism	**1**
b	Left bracket	**1**
c	Winder Kit (*)	**1**
d	Scroller assembly (2-3" compatible) and core	**1**
e	Tensioning bar	**1**

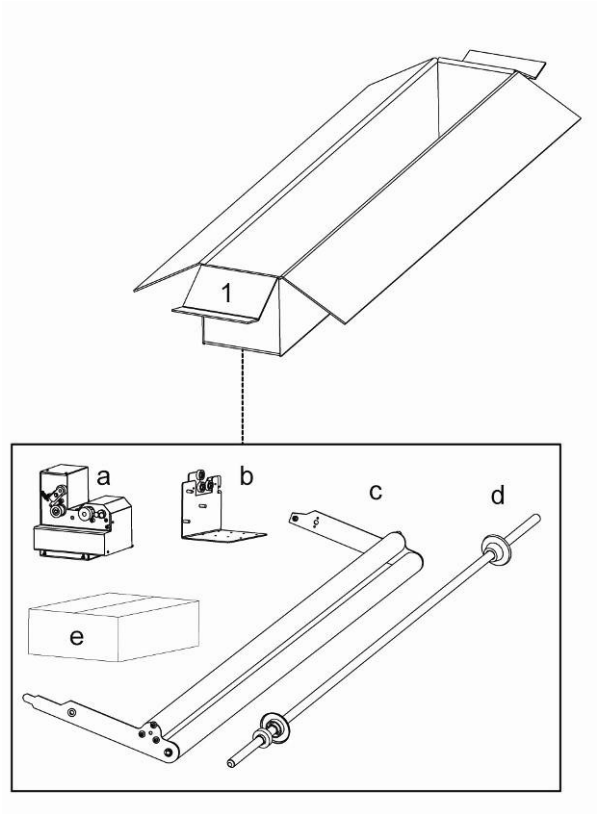
* Please refer to the next page for the contents of the winder kit

2.2.1 Winder kit CS9050



	No	Part Description	Quantity
☐	**1**	PET adjusting strip	1
☐	**2**	Hexagon key 3 mm	1
☐	**3**	Hexagon key 4 mm	1
☐	**4**	Spacer	6
☐	**5**	Adjustment plate	1
☐	**6**	Screw M4x10	10
☐	**7**	Screw M5x12	3
☐	**8**	Power cable (EU and UK)	2
☐	**9**	Motorbox support bracket	1
☐	**10**	Motorbox closing bracket	1
☐	**11**	Roller support closing bracket	1

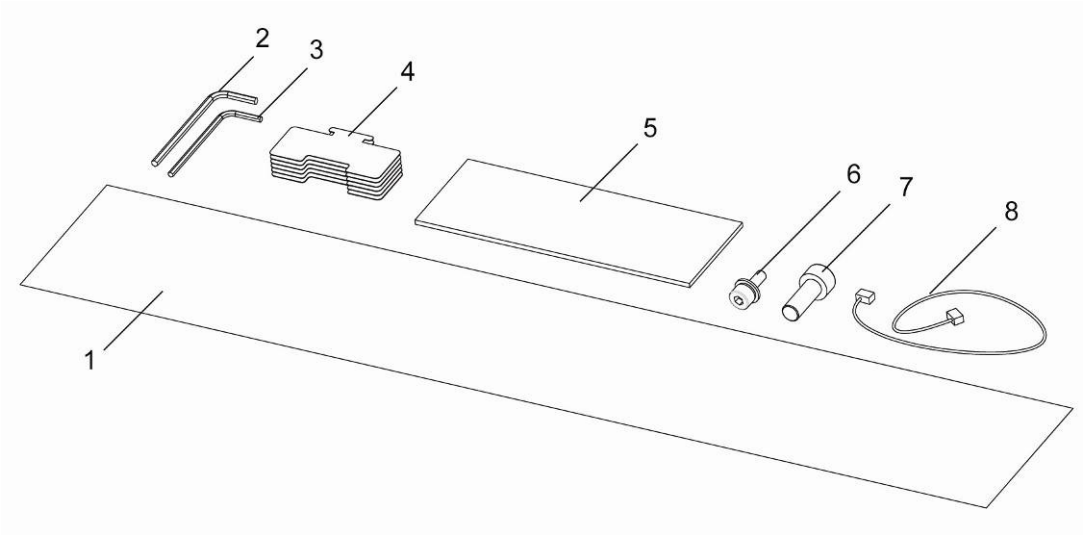
2.3 IN-THE-BOX CONTENTS CS9060 AND CS9160



No	Part Description	Quantity
1	**Front tensioning system**	**1**
a	Driving mechanism and right bracket	1
b	Left bracket	1
c	Tensioning bar	1
d	Scroller assembly	1
e	Winder Kit (*)	1

(*) Please refer to the next page for the contents of the winder kit

2.3.1 Winder kit CS9060 and CS9160



	No	Part Description	Quantity
☐	**1**	PET adjusting strip	1
☐	**2**	Hexagon key 3 mm	1
☐	**3**	Hexagon key 4 mm	1
☐	**4**	Spacer	6
☐	**5**	Adjustment plate	1
☐	**6**	Screw M4x10	6
☐	**7**	Screw M5x12	2
☐	**8**	Power cable (EU and UK)	2

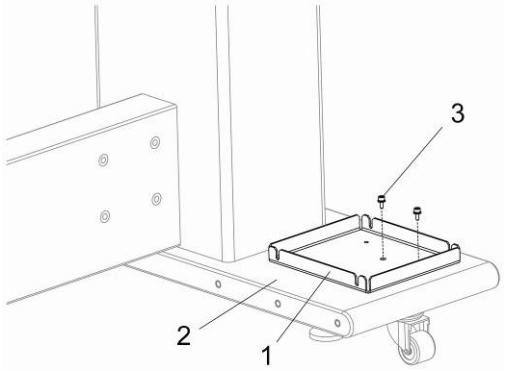
3 INSTALLATION PROCEDURE

3.1 INSTALLING THE FRONT TENSIONING SYSTEM

Step 1 : Loosen the four screws fixing the right bracket with the driving mechanism.

Step 2 : Mount the right bracket (1) to the right leg (2) of the stand using 2 "M5x12" screws (3).

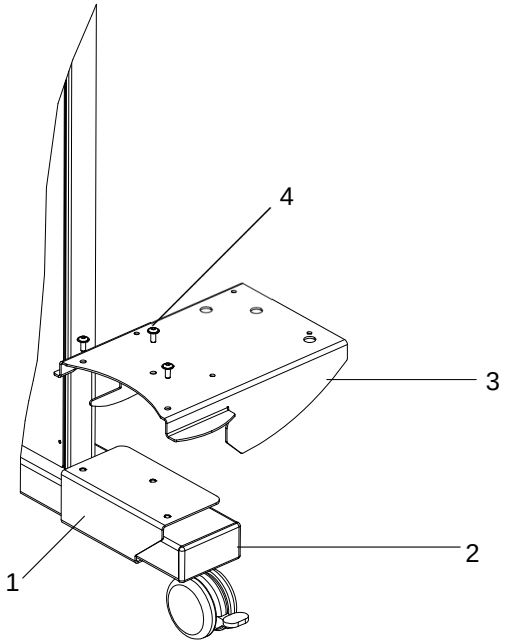
For CS9060 and CS9160



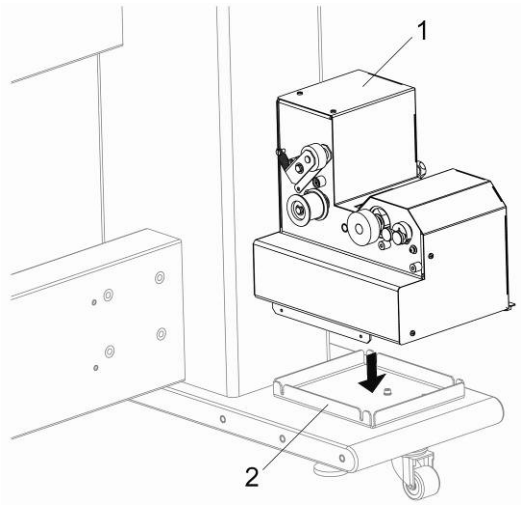
On the CS9050, the right bracket consists out of 2 parts.

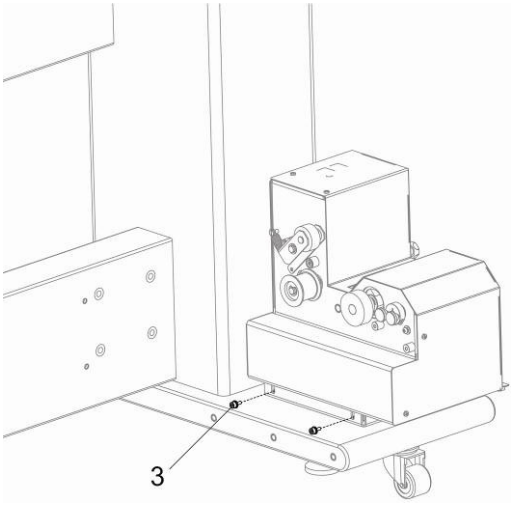
- First slide the closing bracket (1) over the stand (2), make sure that the closing bracket is pushed properly against the stand.
- If the closing bracket is positioned properly, slide the support bracket onto the closing bracket. Make sure that the support bracket its flange is properly positioned against the closing bracket and the stand.
- When it is positioned correctly, fix the support bracket (3) onto the closing bracket using 3 "M5x12" (4) screws.

For CS9050

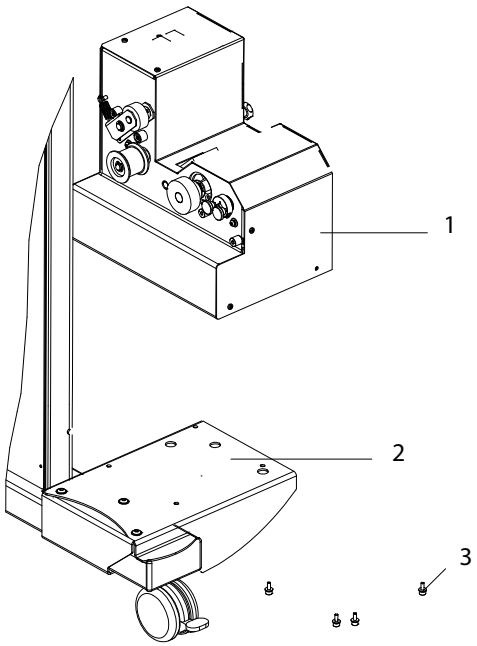


Step 3 : On the CS9060 and CS9160, install the driving mechanism (1) in the right bracket (2) and tighten the four screws (3).





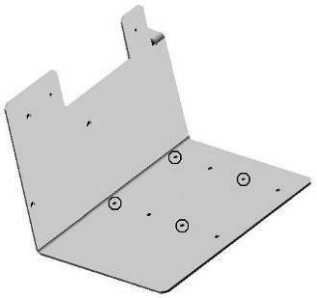
On the CS9050, install the driving mechanism (1) onto the support bracket (2) and tighten the four screws (3)

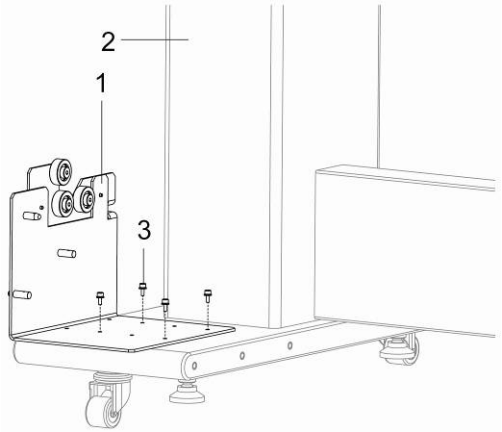


Step 4 : On the CS9060 and CS9160, Mount the left bracket (1) to the left leg (2) of the stand using 4 "M4x10" screws (3).

⚠ Notes ⚠

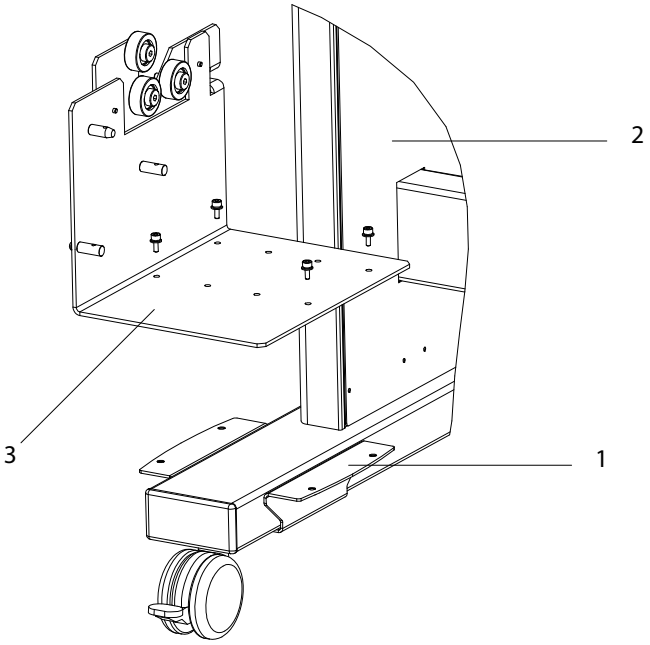
Note that there are 8 holes in the left bracket. Be sure to position the bracket correctly.





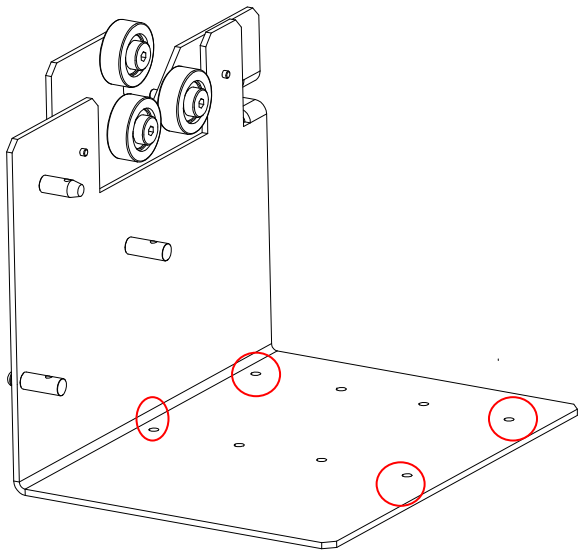
On the CS9050, the left bracket consists out of two parts.

- First attach the closing bracket (1) to the stand (2).
- When fixing the support bracket (3) to the closing bracket, make sure the support bracket is slided against the feet of the stand.
- Fix the support bracket with 4 screws M4x10 to the closing bracket.

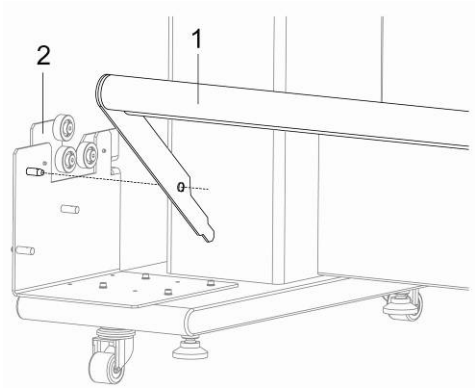


⚠ Notes ⚠

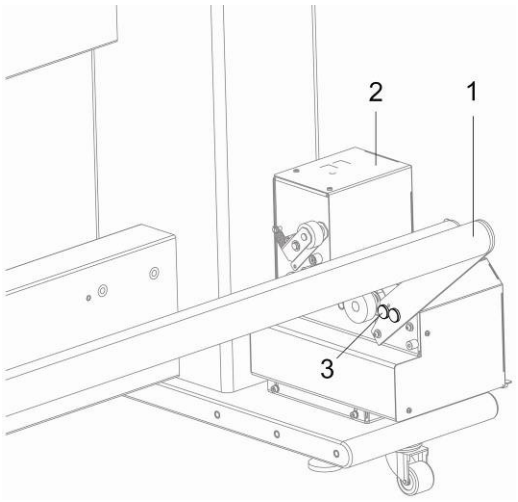
Note that there are 8 holes in the left bracket. Be sure to position the bracket correctly.



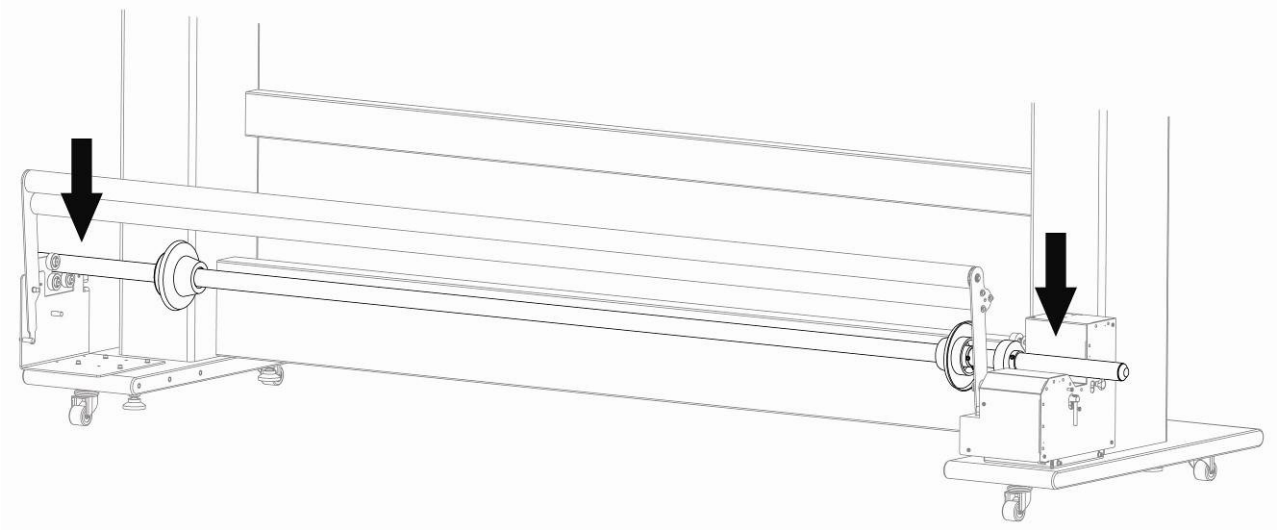
Step 5 : Insert the tensioning bar (1) in the positioning pen in the left bracket (2).



Step 6 : Fix the tensioning bar (1) to the drive mechanism (2) using 2 "M4x10" screws (3).



Step 7 : Install the scroller bar between the left bracket and driving mechanism.



Step 8 : The installation is completed.

Step 9 : Refer to the next chapter to calibrate the tensioning bar and scroller assembly.

This **has** to be done to guarantee a smooth and perfect winding flow.

4 CALIBRATION PROCEDURE

As well as the swingbar as the scroller assembly should be adjusted after installation.

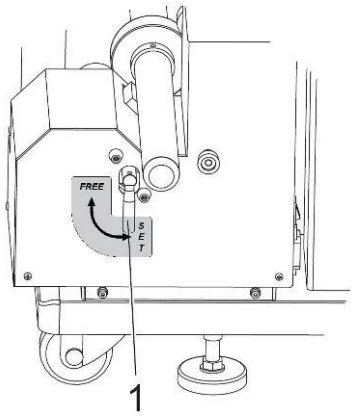
4.1 TENSIONING BAR

Tools needed

- Synthetic paper strip
- Adjustment plate
- 6 spacers of 0,5 mm
- Hexagon key
- Tape (not included in winder kit)
- Pencil (not included in winder kit)

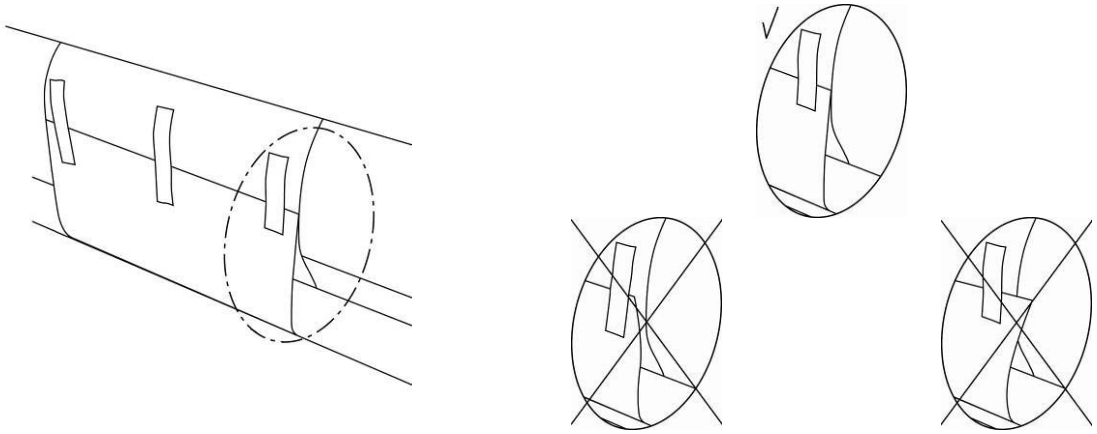
4.1.1 Calibration

Step 1 : Lock the driving mechanism.



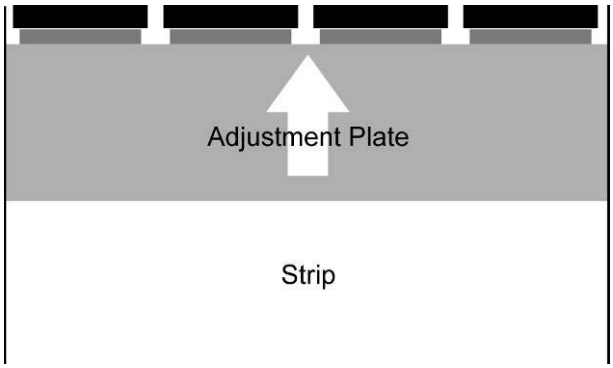
Step 2 : Raise the pressure rollers of the printer.

Step 3 : Create a **straight** loop with the synthetic paper strip around the tensioning bar in the front.

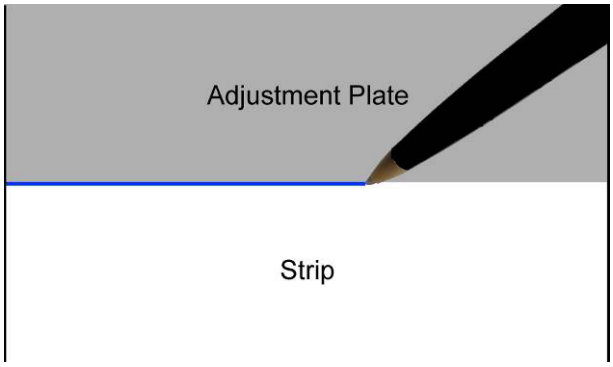


Step 4 : Guide the other end of the strip under the pressure rollers to the back of the machine and move the strip to the left side of the machine. Create a little tension on the strip to be sure it is straight. Leave the tension bar in its lowest position.

Step 5 : Place the adjustment plate at the front of the printer against the pressure rollers.



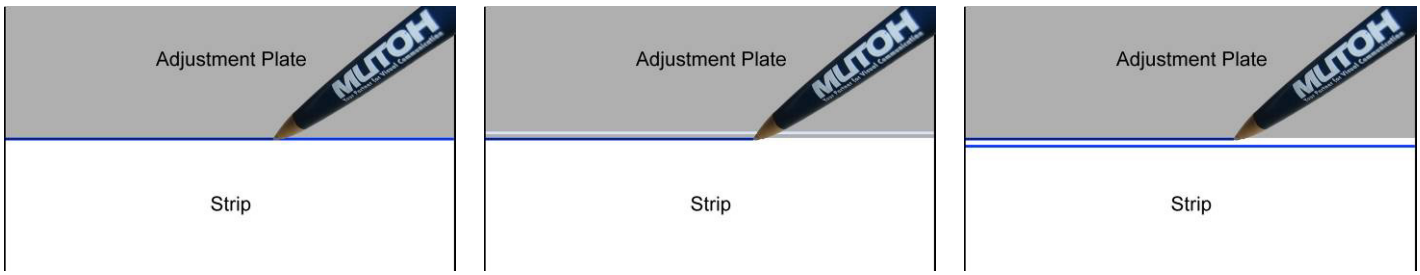
Step 6 : Draw a line on the strip.



Step 7 : Move the strip to the right side.

Step 8 : Draw a line for the second time. The following two situations can be obtained.

✔ X X



The lines overlap each other

► well adjusted

The lines do NOT overlap each other

► perform the adjustment procedure as described in the next chapter

4.1.2 Adjustment

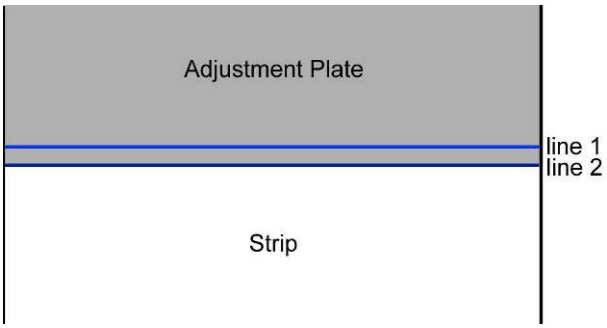
Depending on the result of the calibration (as described in the previous chapter), the tensioning bar should be adjusted until it is positioned horizontally to obtain an equal tension left and right.

Follow the procedure below to adjust the tensioning bar.

Step 1 : Use as many spacers as necessary to cover the space between the two lines drawn on the synthetic paper strip in the calibration procedure.

Step 2 : Evaluate which side of the swingbar is higher and which side should be spaced up.

Situation 1

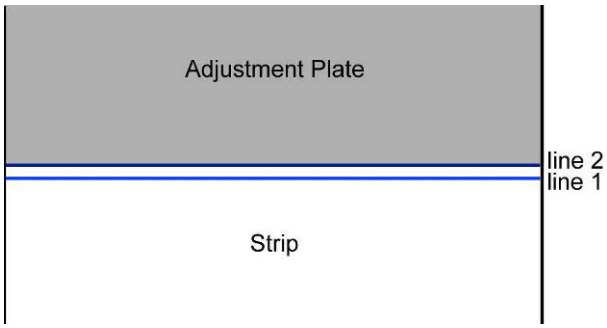


Line 1 = left side calibration line
Line 2 = right side calibration line

In this situation, the right side of the tensioning bar is higher than the left side.

The left side of the T winder 30 should be spaced up.

Situation 2



Line 1 = left side calibration line
Line 2 = right side calibration line

In this situation, the left side of the tensioning bar is higher than the right side.

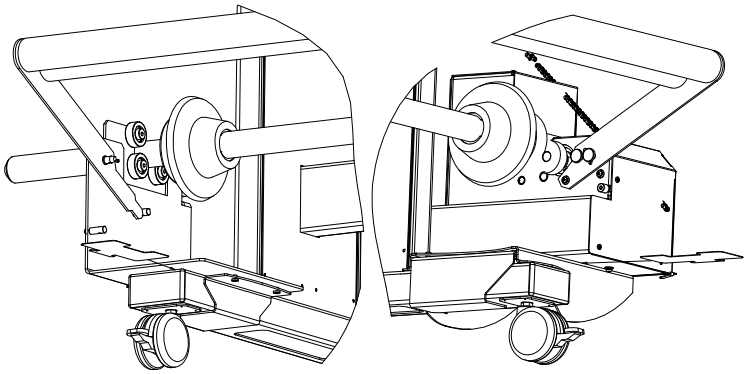
The right side of the T winder 30 should be spaced up.

Step 3 : Install all the spacers under the left or right bracket of the T Winder 30 depending on the deviation in double [*]

a. Loosen the left or right bracket.

b. Install one or more spacers under the bracket.

c. Tighten the right or left bracket again.



Step 4 : Verify the adjustment by following the calibration procedure once again.

[*] It is recommended to use each time 2 spacers next to each other because of the large bearing surface. Please refer to picture below.

4.2 SCROLLER BAR

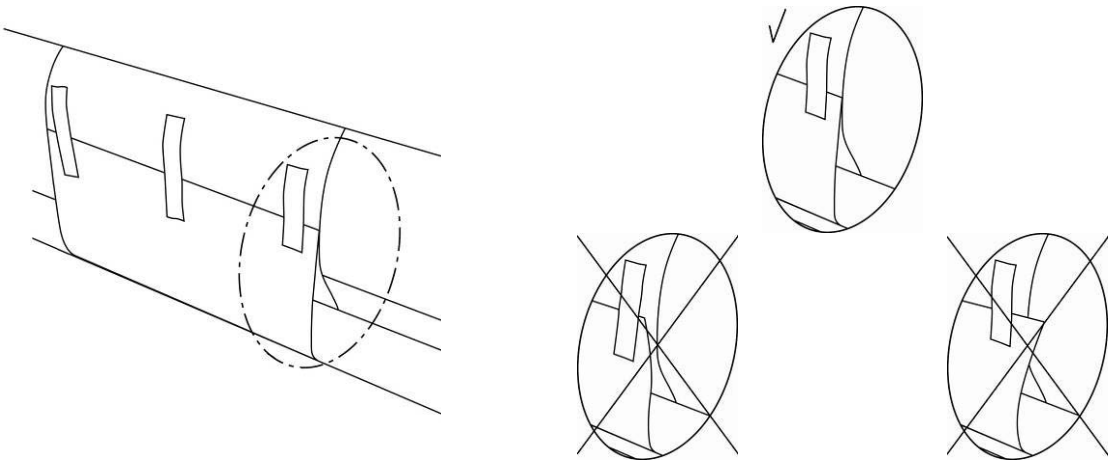
Tools needed

- Synthetic paper strip
- Adjustment plate
- Hexagon key 3 mm
- Tape (not included in winder kit)
- Pencil (not included in winder kit)

4.2.1 Calibration

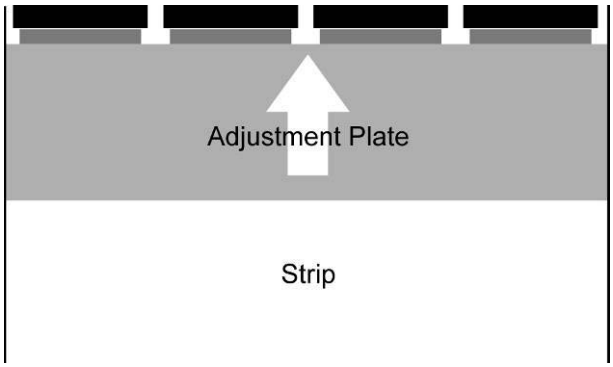
Step 1 : Raise the pressure rollers of the printer.

Step 2 : Create a **straight** loop with the synthetic paper strip around the scroller bar in the front.

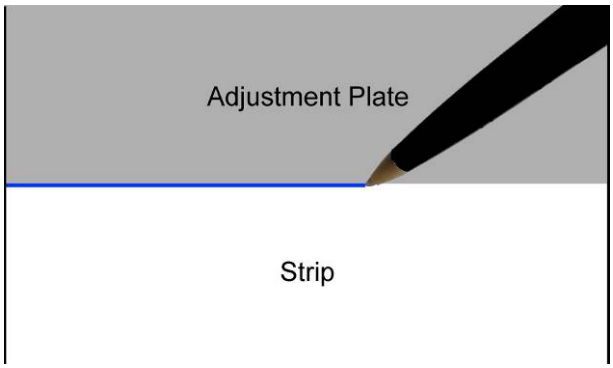


Step 3 : Guide the other end of the strip under the pressure rollers to the back of the machine and move the strip to the left side of the machine. Create a little tension on the strip to be sure it is straight.

Step 4 : Place the adjustment plate at the front of the printer against the pressure rollers.

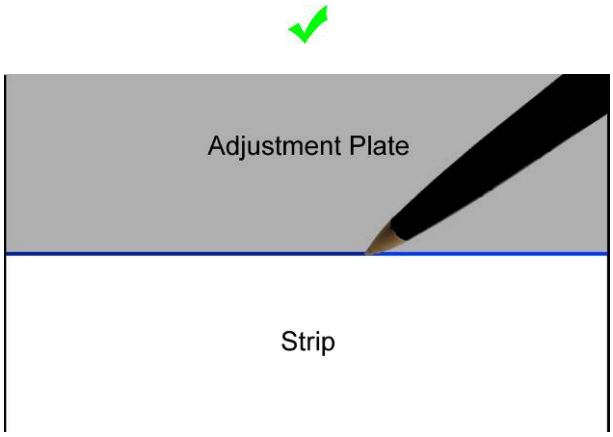


Step 5 : Draw a line on the strip.



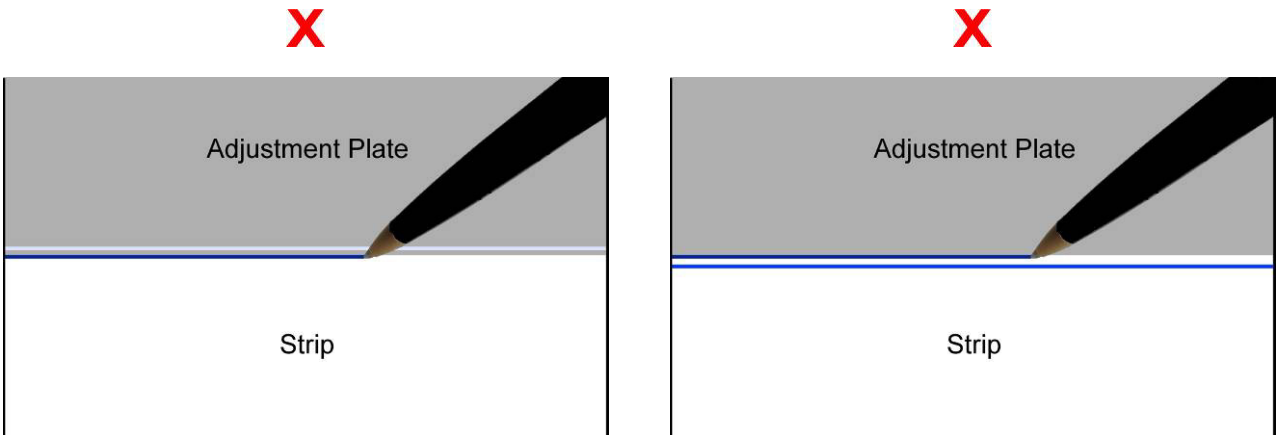
Step 6 : Move the strip to the right side.

Step 7 : Draw a line for the second time. The following two situations can be obtained.



The lines overlap each other

► well adjusted



The lines do NOT overlap each other

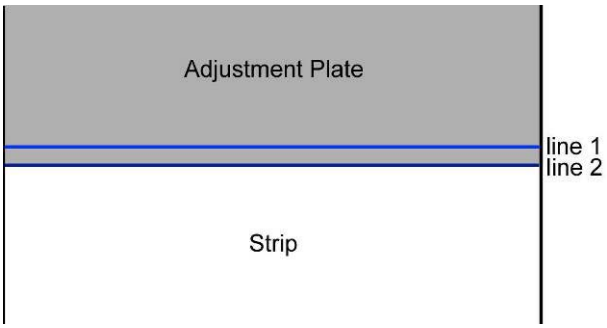
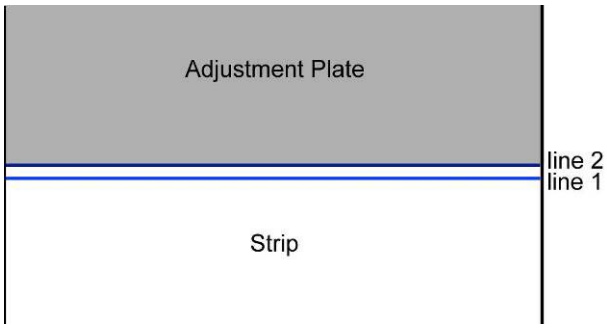
► perform the adjustment procedure as described in the next chapter

4.2.2 Adjustment

Depending on the result of the calibration (as described in the previous chapter), the scroller bar should be adjusted until it is positioned horizontally to obtain a straight winding flow.

Follow the procedure below to adjust the scroller bar.

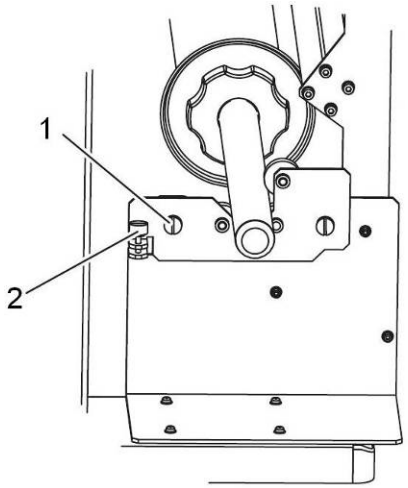
Step 1 : Evaluate on basis of the drawn lines how the bar is positioned compared to the print platform.

Situation 1	Situation 2
	
Line 1 = left side calibration line **Line 2** = right side calibration line	**Line 1** = left side calibration line **Line 2** = right side calibration line
In this situation, the right side of the scroller bar is higher than the left side.	In this situation, the left side of the scroller bar is higher than the right side.
Higher the left side of the scroller bar with the adjustment screw.	Lower the left side of the scroller bar with the adjustment screw.

Step 2 : Lower or higher the left side of the scroller bar as follows:

a. Loosen the fixation screw (**1**).

b. Higher or lower the scroller bar with the adjustment screw (**2**).



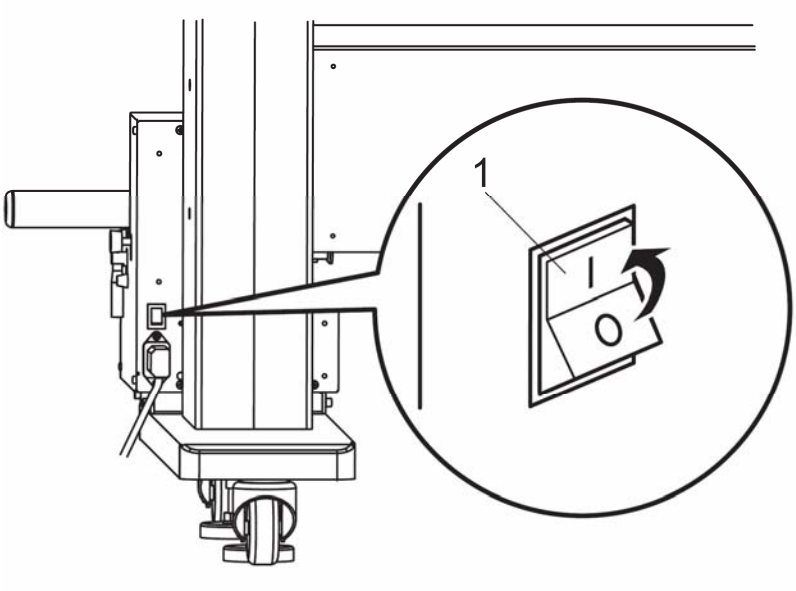
c. Tighten the fixation screw again.

Step 3 : Verify the adjustment by following the calibration procedure once again.

5 OPERATING THE SYSTEM

5.1 SWITCHING THE POWER ON/OFF

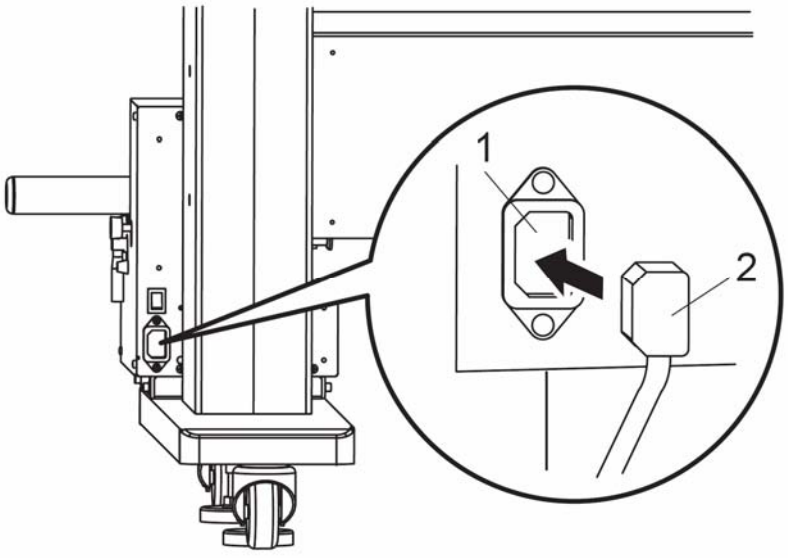
Step 1 : Push the button at the back of the driving mechanism (position "I") to power ON.



5.2 CONNECTING THE POWER CABLE

Step 1 : Be sure that the power is switched OFF.

Step 2 : Connect the power cable to the AC inlet at the back of the driving mechanism.

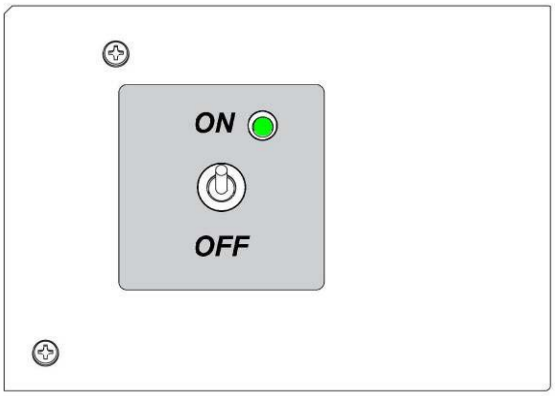


Step 3 : Insert the other side of the power cable in the power socket.

5.3 ACTIVATE THE WINDING SYSTEM

Step 1 : Power ON the driving mechanism at the back.

Step 2 : Enable the winding system with the switch on top of the driving mechanism.



Status LED

ON	The winding system is switched ON
BLINKING	The winding system is operating
OFF	The winding system is switched OFF

5.4 LOCKING THE SYSTEM

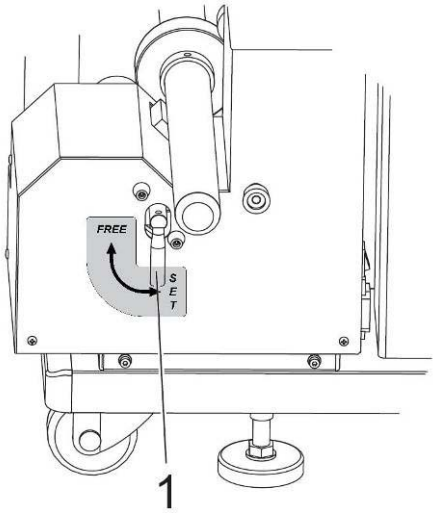
There are two different positions for the scroller bar. In one position it is "set" an in the other position it is "free". Use the handle to switch between the two positions. The purpose for this choice is as follows

SET

- automatic mode
- the scroller bar will be driven by the motorized mechanism when necessary
- not possible to turn the scroller bar by hand

FREE

- manual mode
- the scroller bar will have no contact with the motorized mechanism
- possible to turn the scroller bar by hand



5.5 LOADING ROLL MEDIA

Step 1 : Power ON the printer.

Step 2 : Power ON the winding system (at the back).

Step 3 : Be sure that the winding switch is set "OFF".

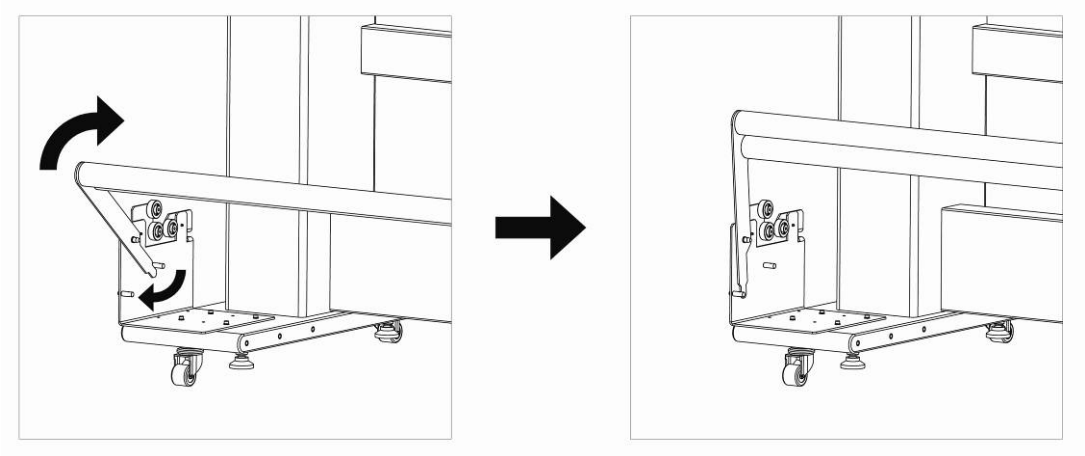
Step 4 : Higher the pressure rollers of the printer.

Step 5 : Load a roll of media at the back of the printer.

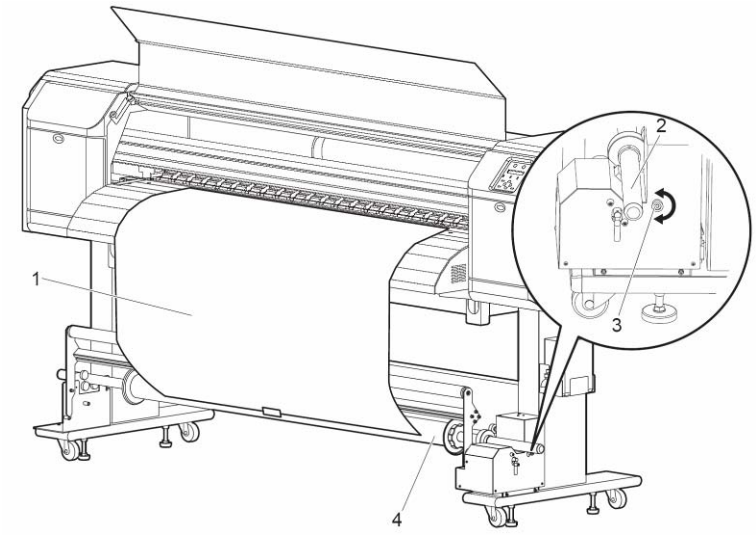
Step 6 : Unwind some media and guide it under the pressure rollers to the front of the printer.

Step 7 : Load an empty core at the front of the printer at the same height of the media. Be sure that the core is at least as wide as the media.

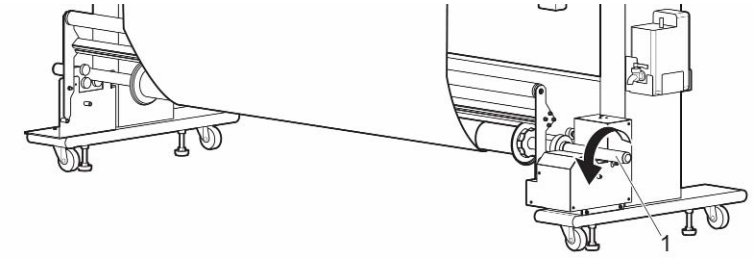
Step 8 : Be sure that the swingbar is in vertical position.



Step 9 : Guide the media (1) to the empty core and tighten the media with some tape.
Fine-tune the horizontal position of the scroller (4) with the adjustment screw (3) at the side.

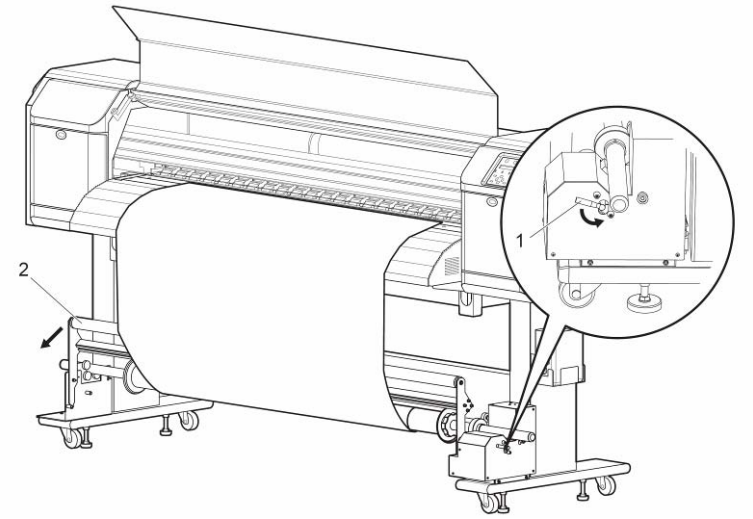


Step 10 : Set the winding system to "FREE" and manually turn the scroller to roll up some media.



Step 11 : Pull down the tensioning bar (2) and set the winding system back to "SET" (1).

The system will automatically go to is idle position.



Step 12 : Lower the pressure rollers of the printer

Step 13 : Enable the winding system. The swingbar will move to its initial position.

Step 14 : Initialize the media as described in the User's Guide of the printer.